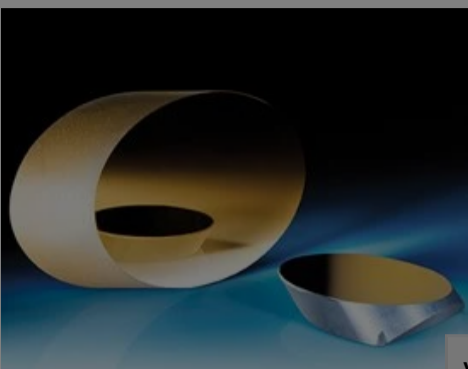


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TECHSPEC® Elliptical Flat Mirrors



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Select Your Country/Region: European Union

Submit

1

€500⁰⁰

ADD TO CART

Volume Pricing

Qty 1-5 €500,00 each

Qty 6-25 €400,00 each

Qty 26-49 €375,00 each

Need More? [Request Quote](#)

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet
- [Download All](#)

General

Type: Flat Mirror

Note: Flatness specification is Peak to Valley

Physical & Mechanical Properties

Thickness Tolerance (inches): ±0.060

Thickness (mm): 19.05 ±1.52

Clear Aperture CA (mm): 68.58 (Minor Axis)
97.00 (Major Axis)

Dimensional Tolerance (inches): ±0.020

Dimensional Tolerance (mm): ±0.50

Major Axis (mm): 107.77

Minor Axis (mm): 76.20

Optical Properties

Wavelength Range (µm): 0.4 - 2

Coating Type: Metal

Coating: Protected Aluminum (400-2000nm)

Surface Flatness (P-V): λ/8

Wavelength Range (nm): 400 - 2000

Substrate: [ⓘ](#) **BOROFLOAT®**

Coating Specification: R_{avg} >85% @ 400 - 700nm
R_{avg} >90% @ 400 - 2000nm

Surface Quality: 60-40

Damage Threshold, Reference: ⓘ	0.3 J/cm ² @ 532nm & 1064nm, 10ns
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Regulatory Compliance

RoHS 2015: **Compliant**

Reach 247: **Compliant**

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Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

See Figure B in Technical Information tab for dimensional diagram.

- Circular Profile When Oriented at 45°
- Ideal for Redirecting Light
- Multiple Sizes and Coatings Offered

TECHSPEC® λ/8 Precision Elliptical Flat Mirrors are ideal for research and astronomical applications. Because of their elongated major axis, they are suited to bending and folding light at precise angles with minimum wavefront distortion. These mirrors have a circular profile when they are oriented at 45°. TECHSPEC® λ/8 Precision Elliptical Flat Mirrors feature a BOROFLOAT® substrate. Multiple sizes and coating options are offered to best suit a wide range of applications.

Technical Information

Fig.	Minor Axis (mm)	Major Axis (mm)	Thickness (mm)	Stock No.					
				Uncoated	Protected Aluminum	UV Enhanced Aluminum	Enhanced Aluminum	Protected Gold	Protected Silver
B	12.70	17.96	3.81	#32-270	#32-271	#43-573	#32-272	#32-273	#89-454
B	22.23	31.42	6.35	#32-093	#30-836	#43-574	#32-131	#32-085	#89-455
B	26.97	38.15	6.35	#32-094	#30-837	#43-575	#32-132	#32-086	#89-456
A	31.75	44.91	9.53	#32-095	#30-205	#43-576	#32-133	#32-087	#89-457
A	38.10	53.87	9.53	#32-096	#30-258	#43-577	#32-134	#32-088	#89-458
A	47.63	67.36	11.68	#32-097	#30-840	#43-578	#32-135	#32-089	#89-459
B	57.15	80.82	15.88	#32-098	#41-131	#43-579	#32-136	#32-090	#89-460
B	66.68	94.28	15.88	#32-099	#42-583	#43-580	#32-137	#32-091	#89-461
B	76.20	107.77	19.05	#32-100	#42-584	#43-581	#32-138	#32-092	#89-462

Related Products



Optical Mirror Mounts



Elliptical Plate Beamsplitters

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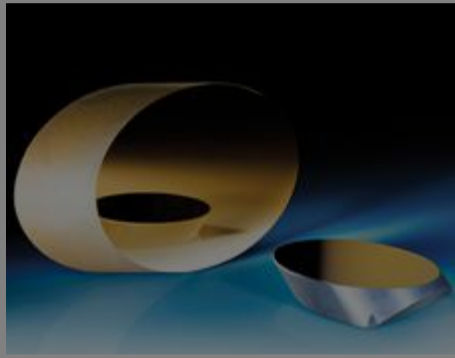
Frequently Purchased Together



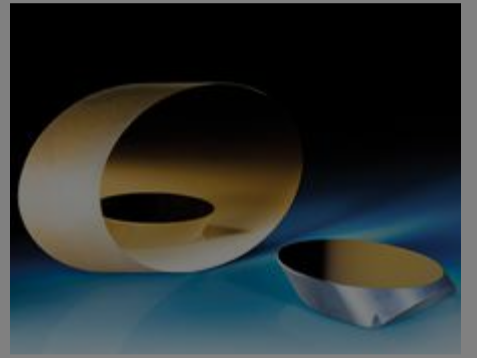
#31-402 - 63.5mm Dia x 354.9mm FL Achromatic Lens
€372,00



#32-502 - 30mm Dia. x 150mm FL, MgF₂ Coated, Achromatic Doublet Lens
€145,00



#41-131 - Elliptical Mirror 57.15mm Minor Axis Protected Aluminum
€346,00



#42-583 - Elliptical Mirror 66.68mm Minor Axis Protected Aluminum
€382,00

Resources

Media Type

- Application Note
- Video
- FAQ
- Glossary

CASE STUDIES

Using IR Spectroscopy for Counterfeit Drug Detection

APPLICATION NOTE

Roughness of Diamond Turned Off-Axis Parabolic...

APPLICATION NOTE

Off-Axis Parabolic Mirror Selection...

VIDEO

Compound Parabolic Concentrators Review

FAQ

I would like to use your Off-Axis Mirror in a laser...

FAQ

How are your Off-Axis Parabolic Metal Mirrors...

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